

Tommaso Anfodillo

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62

papers

3,963

citations

29

h-index

62

g-index

64

ext. papers

4,637

ext. citations

5.6

avg, IF

5.43

L-index

#	Paper	IF	Citations
62	Critical temperatures for xylogenesis in conifers of cold climates. <i>Global Ecology and Biogeography</i> , 2008 , 17, 696-707	6.1	387
61	Evidence of threshold temperatures for xylogenesis in conifers at high altitudes. <i>Oecologia</i> , 2007 , 152, 1-12	2.9	331
60	Conifers in cold environments synchronize maximum growth rate of tree-ring formation with day length. <i>New Phytologist</i> , 2006 , 170, 301-10	9.8	290
59	Trephor: A New Tool for Sampling Microcores from tree stems. <i>IAWA Journal</i> , 2006 , 27, 89-97	2.3	282
58	Convergent tapering of xylem conduits in different woody species. <i>New Phytologist</i> , 2006 , 169, 279-90	9.8	204
57	Age-dependent xylogenesis in timberline conifers. <i>New Phytologist</i> , 2008 , 177, 199-208	9.8	180
56	Assessment of Cambial Activity and Xylogenesis by Microsampling Tree Species: An Example at the Alpine Timberline. <i>IAWA Journal</i> , 2006 , 27, 383-394	2.3	165
55	Universal hydraulics of the flowering plants: vessel diameter scales with stem length across angiosperm lineages, habits and climates. <i>Ecology Letters</i> , 2014 , 17, 988-97	10	163
54	Dendrometer and intra-annual tree growth: What kind of information can be inferred?. <i>Dendrochronologia</i> , 2007 , 25, 113-124	2.8	148
53	Plant height and hydraulic vulnerability to drought and cold. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 7551-7556	11.5	139
52	Towards a functional and simplified allometry for estimating forest biomass. <i>Forest Ecology and Management</i> , 2006 , 237, 583-593	3.9	109
51	Pattern of xylem phenology in conifers of cold ecosystems at the Northern Hemisphere. <i>Global Change Biology</i> , 2016 , 22, 3804-3813	11.4	108
50	Widening of xylem conduits in a conifer tree depends on the longer time of cell expansion downwards along the stem. <i>Journal of Experimental Botany</i> , 2012 , 63, 837-45	7	93
49	A meta-analysis of cambium phenology and growth: linear and non-linear patterns in conifers of the northern hemisphere. <i>Annals of Botany</i> , 2013 , 112, 1911-20	4.1	92
48	Axial conduit widening in woody species: a still neglected anatomical pattern. <i>IAWA Journal</i> , 2013 , 34, 352-364	2.3	92
47	Tree water relations and climatic variations at the alpine timberline: seasonal changes of sap flux and xylem water potential in <i>Larix decidua</i> Miller, <i>Picea abies</i> (L.) Karst. and <i>Pinus cembra</i> L. <i>Annales Des Sciences Forestières</i> , 1998 , 55, 159-172		82
46	Hydraulic constraints limit height growth in trees at high altitude. <i>New Phytologist</i> , 2011 , 189, 241-52	9.8	70

45	Hormonal signals involved in the regulation of cambial activity, xylogenesis and vessel patterning in trees. <i>Plant Cell Reports</i> , 2013 , 32, 885-98	5.1	69
44	Plant physiology in theory and practice: an analysis of the WBE model for vascular plants. <i>Journal of Theoretical Biology</i> , 2009 , 259, 1-4	2.3	69
43	The challenge of tree height in <i>Eucalyptus regnans</i> : when xylem tapering overcomes hydraulic resistance. <i>New Phytologist</i> , 2010 , 187, 1146-1153	9.8	67
42	Tapering of xylem conduits and hydraulic limitations in sycamore (<i>Acer pseudoplatanus</i>) trees. <i>New Phytologist</i> , 2008 , 177, 653-664	9.8	65
41	Scaling of Xylem Vessel Diameter with Plant Size: Causes, Predictions, and Outstanding Questions. <i>Current Forestry Reports</i> , 2017 , 3, 46-59	8	59
40	Minimum cuticular conductance and cuticle features of <i>Picea abies</i> and <i>Pinus cembra</i> needles along an altitudinal gradient in the Dolomites (NE Italian Alps). <i>Tree Physiology</i> , 2002 , 22, 479-87	4.2	51
39	Transport efficiency through uniformity: organization of veins and stomata in angiosperm leaves. <i>New Phytologist</i> , 2016 , 209, 216-27	9.8	46
38	Life cycle environmental impact of firewood production [A case study in Italy]. <i>Applied Energy</i> , 2015 , 150, 185-195	10.7	43
37	Testing the equi-resistance principle of the xylem transport system in a small ash tree: empirical support from anatomical analyses. <i>Tree Physiology</i> , 2012 , 32, 171-7	4.2	32
36	TRACHEID AND PIT ANATOMY VARY IN TANDEM IN A TALL SEQUOIA DENDRON GIGANTEUM TREE. <i>IAWA Journal</i> , 2016 , 37, 172-185	2.3	31
35	An allometry-based approach for understanding forest structure, predicting tree-size distribution and assessing the degree of disturbance. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013 , 280, 20122375	4.4	30
34	Degree of tapering of xylem conduits in stems and roots of small <i>Pinus cembra</i> and <i>Larix decidua</i> trees. <i>Botany</i> , 2009 , 87, 501-508	1.3	29
33	Evidence of osmoregulation in <i>Larix decidua</i> at Alpine treeline and comparative responses to water availability of two co-occurring evergreen species. <i>Annals of Forest Science</i> , 2000 , 57, 623-633	3.1	29
32	Determinants of legacy effects in pine trees - implications from an irrigation-stop experiment. <i>New Phytologist</i> , 2020 , 227, 1081-1096	9.8	28
31	Interplay of growth rate and xylem plasticity for optimal coordination of carbon and hydraulic economies in <i>Fraxinus ornus</i> trees. <i>Tree Physiology</i> , 2016 , 36, 1310-1319	4.2	28
30	Tracing the Water Sources of Trees and Streams: Isotopic Analysis in a Small Pre-Alpine Catchment. <i>Procedia Environmental Sciences</i> , 2013 , 19, 106-112		27
29	Tip-to-base xylem conduit widening as an adaptation: causes, consequences, and empirical priorities. <i>New Phytologist</i> , 2021 , 229, 1877-1893	9.8	25
28	Water sources and carbon isotope composition ($\delta^{13}C$) of selected tree species of the Italian Alps. <i>Canadian Journal of Forest Research</i> , 1994 , 24, 1575-1578	1.9	24

27	Self-similarity and scaling in forest communities. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 7658-62	11.5	23
26	Applications of a thermal imaging technique in the study of the ascent of sap in woody species. <i>Plant, Cell and Environment</i> , 1993 , 16, 997-1001	8.4	21
25	Exploring the bark thickness-stem diameter relationship: clues from lianas, successive cambia, monocots and gymnosperms. <i>New Phytologist</i> , 2017 , 215, 569-581	9.8	20
24	Allometric Trajectories and "Stress": A Quantitative Approach. <i>Frontiers in Plant Science</i> , 2016 , 7, 1681	6.2	19
23	Axial anatomy of the leaf midrib provides new insights into the hydraulic architecture and cavitation patterns of <i>Acer pseudoplatanus</i> leaves. <i>Journal of Experimental Botany</i> , 2019 , 70, 6195-6201	7	17
22	Biomass distribution of two subalpine dwarf-shrubs in relation to soil moisture and nutrient content. <i>Journal of Vegetation Science</i> , 2004 , 15, 457-464	3.1	17
21	A standardization method to disentangle environmental information from axial trends of xylem anatomical traits. <i>Tree Physiology</i> , 2019 , 39, 495-502	4.2	16
20	Calibration of Granier-Type (TDP) Sap Flow Probes by a High Precision Electronic Potometer. <i>Sensors</i> , 2019 , 19,	3.8	14
19	Axial variation of xylem conduits in the Earth's tallest trees. <i>Trees - Structure and Function</i> , 2019 , 33, 1299-1311	13.11	14
18	Axial vessel widening in arborescent monocots. <i>Tree Physiology</i> , 2014 , 34, 137-45	4.2	13
17	Hydraulic traits vary as the result of tip-to-base conduit widening in vascular plants. <i>Journal of Experimental Botany</i> , 2020 , 71, 4232-4242	7	12
16	Constant theoretical conductance via changes in vessel diameter and number with height growth in <i>Moringa oleifera</i> . <i>Journal of Experimental Botany</i> , 2019 , 70, 5765-5772	7	11
15	Tree differences in primary and secondary growth drive convergent scaling in leaf area to sapwood area across Europe. <i>New Phytologist</i> , 2018 , 218, 1383-1392	9.8	10
14	Robustness of xylem properties in conifers: analyses of tracheid and pit dimensions along elevational transects. <i>Tree Physiology</i> , 2018 , 38, 212-222	4.2	10
13	Comment on "The blind men and the elephant: the impact of context and scale in evaluating conflicts between plant hydraulic safety and efficiency" by Meinzer et al. (2010). <i>Oecologia</i> , 2011 , 165, 271-4; discussion 275	2.9	9
12	Land Use Change and Forest Carbon Sink Assessment in an Alpine Mountain Area of the Veneto Region (Northeast Italy). <i>Mountain Research and Development</i> , 2009 , 29, 161-168	1.4	9
11	Testing a general approach to assess the degree of disturbance in tropical forests. <i>Journal of Vegetation Science</i> , 2017 , 28, 659-668	3.1	7
10	Tree size mostly drives the variation of xylem traits at the treeline ecotone. <i>Trees - Structure and Function</i> , 2019 , 33, 1657-1665	2.6	7

9	Evaluation of environmental impacts of harvest residue-based bioenergy using radiative forcing analysis. <i>Forestry Chronicle</i> , 2014 , 90, 577-585	1	7
8	The total path length hydraulic resistance according to known anatomical patterns: What is the shape of the root-to-leaf tension gradient along the plant longitudinal axis?. <i>Journal of Theoretical Biology</i> , 2020 , 502, 110369	2.3	6
7	The Widened Pipe Model of plant hydraulic evolution. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	5
6	Across climates and species, higher vapour pressure deficit is associated with wider vessels for plants of the same height. <i>Plant, Cell and Environment</i> , 2020 , 43, 3068-3080	8.4	4
5	Girdling of fruit-bearing branches of <i>Corylus avellana</i> reduces seed mass while defoliation does not. <i>Scientia Horticulturae</i> , 2019 , 255, 37-43	4.1	3
4	Assessment of Canopy Conductance Responses to Vapor Pressure Deficit in Eight Hazelnut Orchards Across Continents.. <i>Frontiers in Plant Science</i> , 2021 , 12, 767916	6.2	1
3	Stable Allometric Trajectories in <i>Picea abies</i> (L.) Karst. Trees along an Elevational Gradient. <i>Forests</i> , 2020 , 11, 1231	2.8	0
2	Radial stem growth dynamics and phenology of a multi-stemmed species (<i>Corylus avellana</i> L.) across orchards in the Northern and Southern hemispheres. <i>Tree Physiology</i> , 2021 , 41, 2022-2033	4.2	0
1	Short Communication. Basic wood density and moisture content of 14 shrub species under two different site conditions in the Chilean Mediterranean shrubland. <i>Forest Systems</i> , 2022 , 31, eSC01-eSC01 ^{0.9}		